

IN THE CLAIMS

Please amend the claims as follows:

Claims 1-11 (Canceled).

Claim 12 (Currently Amended): A heat transport device comprising:

a first base plate including a liquid suction and retention unit ~~configured to retain~~  
which retains a liquid-phase working fluid by capillary force;

a body with protrusions on a bottom face thereof;

a second base plate facing the first base plate, the second base plate including a face provided with a first concavity so as to define a vaporization chamber which vaporizes the liquid-phase working fluid retained in the liquid suction and retention unit to a gas-phase working fluid;

a second concavity provided on the face of the second base plate cooperating with the body so as to define a liquefaction chamber which liquefies the gas-phase working fluid vaporized at the vaporization chamber to the liquid-phase working fluid;

a first ditch provided on the face of the second base plate that defines a channel which transports the gas-phase working fluid from the vaporization chamber to the liquefaction chamber, a first end of the first ditch being in fluid communication with the vaporization chamber and a second end of the first ditch being in fluid communication with the liquefaction chamber;

a second ditch provided on the face of the second base plate that defines a further channel which transports the liquid-phase working fluid from the liquefaction chamber to the liquid suction and retention unit, a first end of the second ditch being in fluid communication with the liquefaction chamber and a second end of the second ditch being a closed end

adjacent to the vaporization chamber such that the second end of the second ditch is not in fluid communication within the second base plate with the vaporization chamber;

a third concavity provided on the face of the second base plate and disposed between the first ditch and the second ditch, the third concavity cooperating with the first base plate to define a space for thermal insulation; and

a thermoplastic or thermosetting resin material bonding the first and second base plates,

wherein a surface of the first base plate is covered with a protective film, and

wherein the protective film includes silicon or titanium.

Claim 13 (Withdrawn): A method for manufacturing a heat transport device, comprising:

forming a first base plate including a liquid suction and retention unit configured to retain a liquid-phase working fluid by capillary force, and

a body provided with protrusions on a bottom face thereof;

forming a second base plate including a face provided with a first concavity so as to define a vaporization chamber configured to vaporize the liquid-phase working fluid retained in the liquid suction and retention unit to a gas-phase working fluid,

a second concavity cooperating with the body so as to define a liquefaction chamber configured to liquefy the gas-phase working fluid vaporized at the vaporization chamber to the liquid-phase working fluid,

a first ditch that defines a channel configured to transport the gas-phase working fluid from the vaporization chamber to the liquefaction chamber, and

a second ditch that defines a further channel configured to transport the liquid-phase working fluid from the liquefaction chamber to the liquid suction and retention unit;

laminating the first base plate, a thermoplastic or thermosetting resin material, and the second base plate; and

bonding the first and the second base plates with the thermoplastic or thermosetting resin material by heating the composite of the first base plate, the thermoplastic or thermosetting resin material, and the second base plate under a pressurized condition;

oxidizing a surface of the first base plate;

coating the oxidized surface with a thin film of silicon or titanium; and

oxidizing the coated surface by plasma treatment.

Claims 14-15 (Canceled).

Claim 16 (Currently Amended): The heat transport device according to claim 12, further comprising a fourth concavity provided on the face of the second base plate which stores the liquid-phase working fluid that is supplied to the liquid suction and retention unit.[[.]]

Claim 17 (Previously Presented): The heat transport device according to claim 16, further comprising a fifth concavity provided on the face of the second base plate which stores the liquid-phase working fluid that is supplied to the liquefaction chamber when the liquid-phase working fluid retained in the second concavity decreases lower than a predetermined level.

Claim 18 (New): The heat transport device according to claim 12, wherein the first base plate is disposed above the second base plate.

Claim 19 (New): The heat transport device according to claim 12, wherein the first base plate includes first and second openings, the liquid suction and retention unit is provided in the first opening and the body is provided in the second opening.